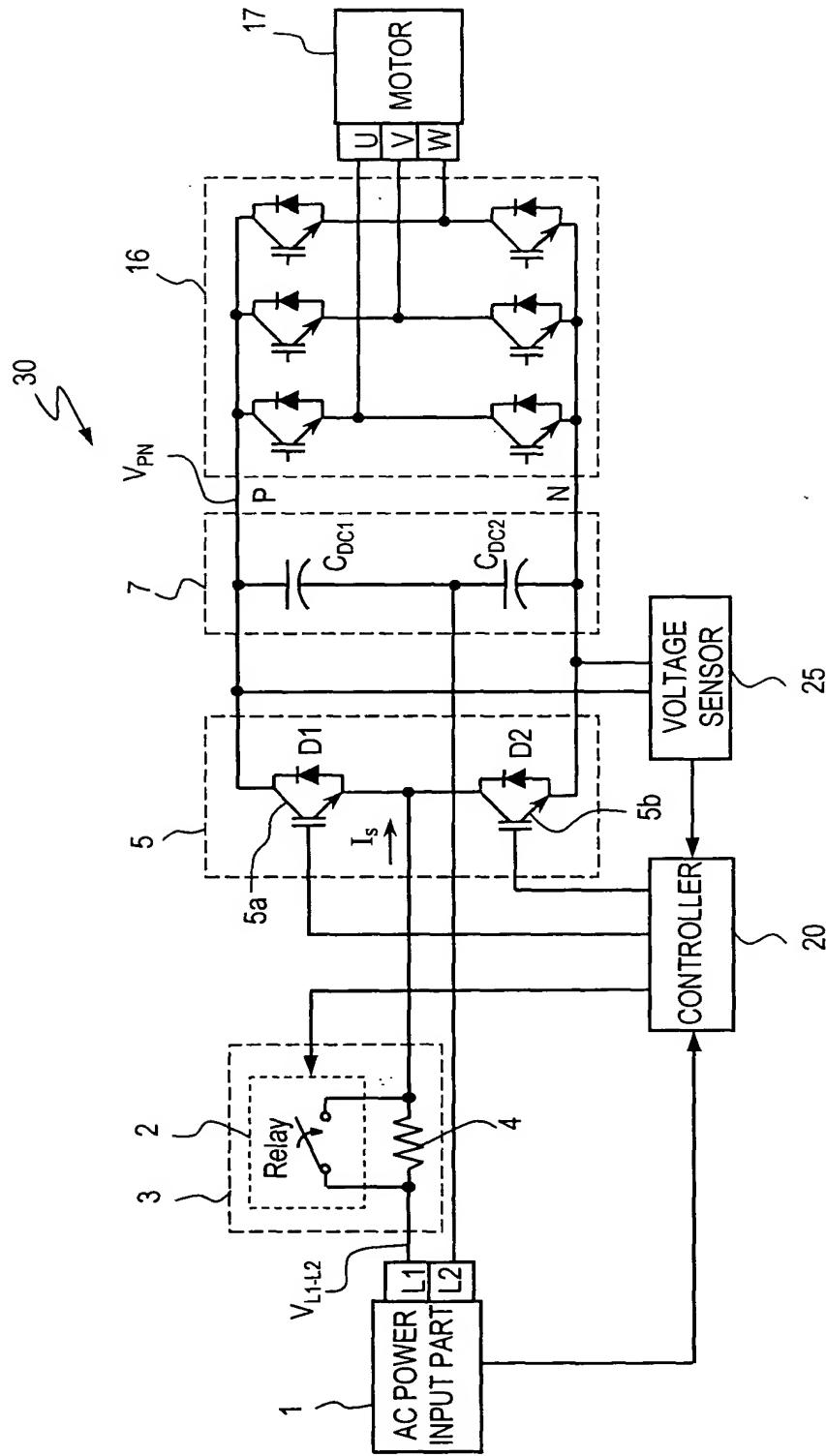


FIG. 1



2 / 6

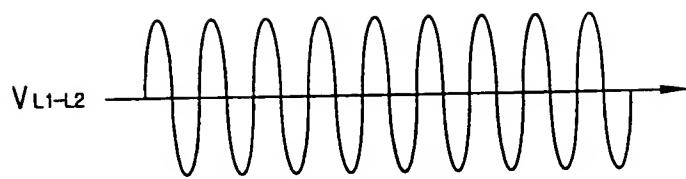


FIG. 2A

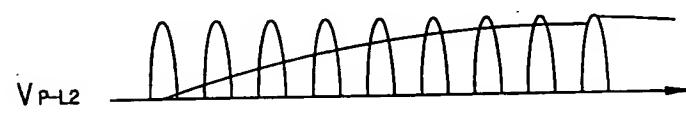


FIG. 2B

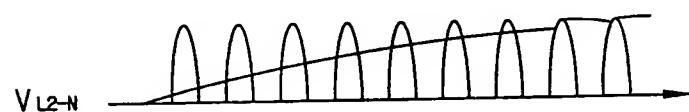


FIG. 2C

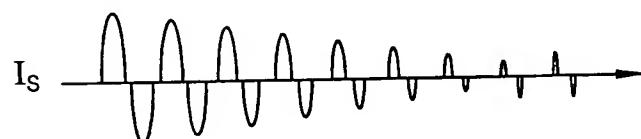


FIG. 2D

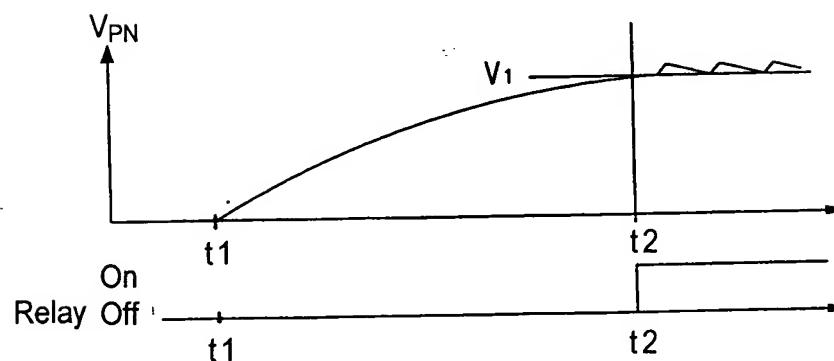


FIG. 2E



FIG. 2F

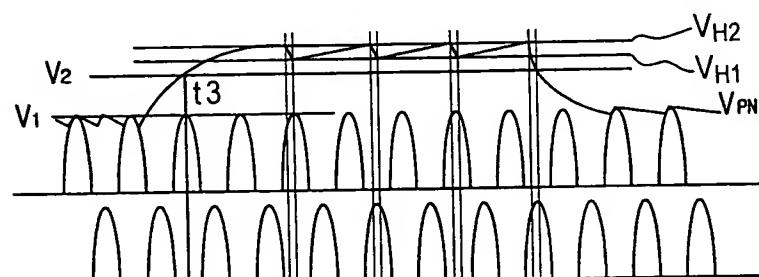
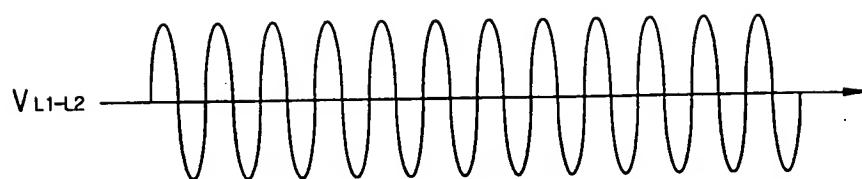
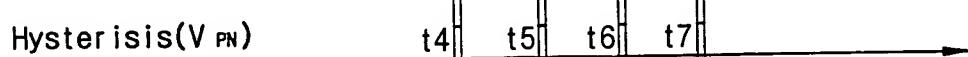


FIG. 3C



SW5a ON=Sign(V<sub>L1-L2</sub>) & V<sub>H1</sub><V<sub>PN</sub><V<sub>H2</sub>

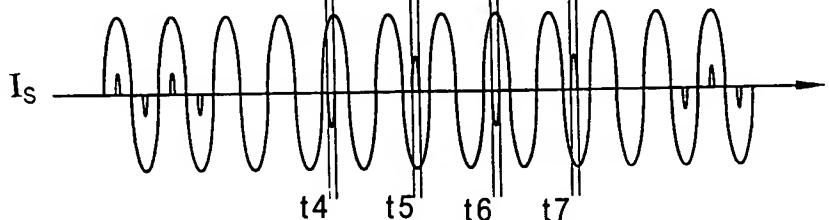
t4 t5 t6 t7

FIG. 3G

SW5b ON=Sign(V<sub>L1-L2</sub>) & V<sub>H1</sub><V<sub>PN</sub><V<sub>H2</sub>

t4a t5 t6a t7

FIG. 3H



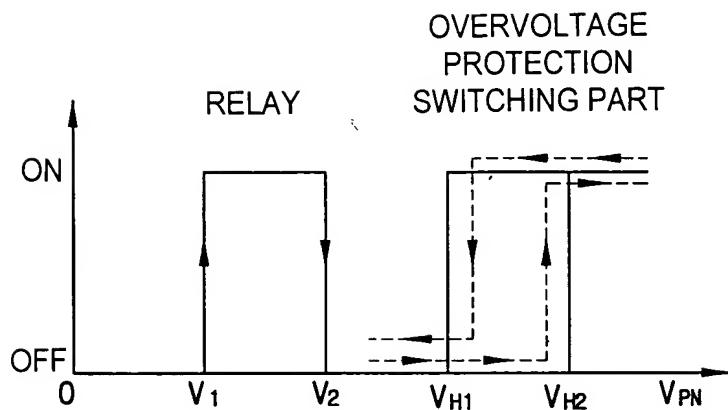


FIG. 4A

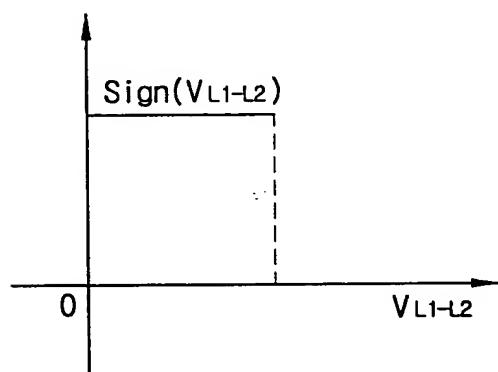


FIG. 4B

5 / 6

**FIG. 5**

ELEMENT	NUMBER OF ELEMENTS	
	CONVENTIONAL CIRCUIT	PRESENT INVENTION
DIODE	3	0
RELAY	1	1
RESISTOR	2	1
SWITCH	1	2
CAPACITOR	2	2
<b>TOTAL</b>	<b>9</b>	<b>6</b>

**FIG. 6  
(PRIOR ART)**

